



AirSeal[®]
Clinical Publications & Summary Statements

Colorectal Surgery

Summary Statements:

1. There are over 100 patients across 3 colorectal studies that suggest when AirSeal® is used at low pressure, patients experience a reduction in post-op pain, post-op ileus rates and procedural time, all which contribute to a shorter hospital stay. ^{14, 19, 37}
2. Due to the stable pneumoperitoneum that AirSeal®'s valve-free technology can provide, Colorectal surgeons across 2 studies with over 100 patients experienced a reduction in both operative time and patient length of stay. ^{14, 37}
3. A retrospective Colorectal study shows that utilizing AirSeal® at 12mmHg or lower reduces the length of time that patients are NPO after TaTME procedures. ¹⁹

Author	Journal	Publication Type	Focus of Study	Study Design	# of Subjects	Key Metrics	Key Findings
Denost	British Journal of Surgery	Prospective, Randomized	Laparoscopic & Robotic Colectomy	AirSeal® at 7mmHg vs. AirSeal® at 12mmHg	127 Patients (62 AirSeal® at 7mmHg, 65 AirSeal® at 12 mmHg)	LOS, Post-op Pain, Post-op Morbidity	AirSeal® at 7mmHg group experienced: 1. Reduced LOS (1 day) 2. Lower post-operative pain scores 3. Improved post-operative patient mobilization (sitting and walking)
Grieco	Updates in Surgery	Consecutive, Retrospective	TaTME	AirSeal® at 12mmHg vs. AirSeal® at 15mmHg	74 Patients (53 AirSeal® at 12mmHg, 21 AirSeal® at 15mmHg)	Ileus Rates	The low pressure group showed: 1. Decreased occurrence of post-op ileus 2. Shorter time to solid oral feeding

Author	Journal	Publication Type	Focus of Study	Study Design	# of Subjects	Key Metrics	Key Findings
Obias	Journal of Robotic Surgery	Retrospective	Robotic LAR and Right Hemicolectomy	AirSeal® at 15mmHg vs. SI at 15mmHg	150 Patients (54 LAR & 32 Right Hemicolectomy with SI, 40 LAR & 24 Right Hemicolectomy with AirSeal®)	Procedure Time, EBL	AirSeal® group showed: 1. Significantly shorter (20.8%) Low Anterior Resection procedure times (232 min vs. 293 min) 2. Significantly lower EBL (28.2%) in Low Anterior Resection procedures (150cc vs. 209cc)
Akingboye	Langenbeck's Archives of Surgery	Prospective	Laparoscopic Colorectal Surgery	AirSeal® at 8mmHg vs. SI at 15mmHg	120 Patients (53 at 8 mmHg, 67 at 15 mmHg)	Ventilatory Metrics, Pain, Passing Flatus	AirSeal® at 8mmHg group experienced: 1. Improved intraoperative lung compliance and peak inspiratory pressures 2. Decreased post-op pain over 5 days both at rest and on exertion 3. Low IAP was associated with an earlier time to pass flatus post-op

Clinical publications and summary statements presented herein are based on information supplied by CONMED. Lawmed is the UK distributor.

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